



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CEREALS

SOUTH AUSTRALIA

SEASON 1961-62

SCOPE

This Bulletin shows details of the South Australian cereal and hay harvests for the year ended 31st March 1962 as obtained from the annual collection of Agricultural and Pastoral Statistics.

SEASONAL
CONDITIONS

The estimated rainfall over agricultural areas for the first three months of the growing season (April to June 1961) was 5.23 inches; This was close to the average for recent years, but the early opening rains (3.46 inches in April) were followed by very patchy falls during the remainder of the season. Preliminary figures for average rainfall over agricultural areas for the cereal growing period April to November 1961 total 12.14 inches; the April-November mean for the previous 56 years is 12.78 inches. The South-Eastern Division received only 14.84 inches compared with an April-November mean for the previous 56 years of 19.53 inches.

SUMMARY
OF AREAS
AND YIELDS

Reports at the beginning of the season indicated that farmers intended to sow approximately 2,261,000 acres of wheat, 1,464,000 acres of barley, and 954,000 acres of oats. The areas actually sown were 2,270,000 acres to wheat - an increase of 243,000 acres over the previous year, 1,294,000 acres to barley - a decrease of 294,000 acres from the previous year, and 630,000 acres to oats - a decrease of 277,000 acres.

The wheat crop of 33.9 million bushels was 12.5 million bushels less than the 1960-61 crop, despite the larger area sown. The barley yield of 21.3 million bushels was little more than half of that for the previous season (42.2 million bushels) while the yield of 4.4 million bushels of oats was considerably less than the 11.5 million bushels obtained in 1960-61.

The estimate of the combined yields of wheat, barley, and oats, for 1961-62 contained in my bulletin issued in January of this year was 60.8 million bushels. Actual yield for these three cereals was 59.5 million bushels - 40.6 million bushels less than the record 100.1 million harvested in the previous season. The average yields per acre of 15.19, 16.75, and 13.57 bushels of wheat, barley, and oats, respectively are significantly lower than the averages of 18.41 bushels of wheat, 22.27 bushels of barley, and 15.86 bushels of oats, for the ten seasons 1951-52 to 1960-61 inclusive.

TABLE 1 - CEREAL HARVEST, SOUTH AUSTRALIA, 1961-62

Crop	Area		Yield	
	Total Sown(a)	Sown for Grain (b)	Total (c)	Per Acre
Acres				
Wheat	2,269,548	2,229,211	33,854,157	15.19
Barley	1,294,028	1,270,904	21,292,421	16.75
Oats	630,221	323,662	4,390,899	13.57
Rye	37,644	32,263	167,256	5.18
Field Peas	31,541	28,714	256,382	8.93
Area Cut (Acres)				
Hay (all kinds)	208,641		285,801	1.37
Tons				

(a) Includes area sown for hay and forage.

(b) Includes crops which failed.

(c) Excludes weight of bags.

TABLE 2 - WHEAT, BARLEY, AND OATS: AREA AND YIELD, COUNTIES AND DIVISIONS, SOUTH AUSTRALIA, 1961-62

DIVISION and County	Wheat			Barley			Oats			Rainfall (a)
	Area	Yield	Yield per Acre	Area	Yield	Yield per Acre	Area	Yield	Yield per Acre	
	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Inches
CENTRAL										
Adelaide	4,643	91,413	19.69	16,346	355,220	21.73	2,188	41,738	19.08	16.00
Carnarvon	3,438	29,094	8.46	8,929	137,814	15.43	7,192	123,326	17.15	12.12
Eyre	40,844	526,770	12.90	5,781	80,654	13.95	4,458	79,652	17.87	14.10
Fergusson	76,445	1,514,739	19.81	233,830	3,936,949	16.84	6,383	97,753	15.31	10.76
Gawler	97,767	2,201,874	22.52	65,210	1,259,389	19.31	9,481	167,452	17.66	13.10
Hindmarsh	5,376	67,884	12.63	14,094	227,986	16.18	4,284	55,465	12.95	12.16
Light	62,536	1,390,023	22.23	26,699	547,574	20.51	10,745	239,334	22.27	16.29
Sturt	55,209	919,629	16.66	36,491	631,456	17.30	7,264	129,540	17.83	11.89
LOWER NORTH										
Burra (incl. Kimberley)	25,232	376,266	14.91	2,975	42,832	14.40	3,383	47,305	13.98	13.95
Daly	209,389	4,790,811	22.88	120,640	2,450,419	20.31	17,958	344,085	19.16	12.15
Stanley	167,128	3,819,621	22.85	48,777	899,382	18.44	17,213	355,058	20.63	15.90
Victoria	138,554	2,287,635	16.51	48,461	761,246	15.71	7,758	108,198	13.95	13.38
UPPER NORTH										
Dalhousie	48,890	646,020	13.21	5,874	71,892	12.24	3,437	40,698	11.84	10.73
Frome	81,604	1,008,738	12.36	11,512	131,792	11.45	3,992	31,347	7.85	12.16
Newcastle	6,400	78,498	12.27	-	-	-	555	2,387	4.30	(b)
Other Counties	810	3,453	4.26	80	2,147	26.84	35	161	4.60	(b)
SOUTH EASTERN										
Buckingham	37,763	810,018	21.45	14,050	252,462	17.97	25,723	632,716	24.60	14.46
Cardwell	3,330	48,327	14.51	13,620	235,049	17.26	2,496	37,141	14.88	13.64
Grey	3,119	50,010	16.03	1,968	47,036	23.90	1,406	23,523	16.73	17.60
MacDonnell	10,606	208,782	19.69	3,779	76,346	20.20	5,100	105,917	20.77	13.43
Robe	4,545	81,729	17.98	3,704	57,114	15.42	5,516	134,226	24.33	14.42

TABLE 2 - WHEAT, BARLEY, AND OATS: AREA AND YIELD, COUNTIES AND DIVISIONS, SOUTH AUSTRALIA, 1961-62 (continued)

DIVISION and County	Wheat			Barley			Oats			Rainfall (a)
	Area	Yield	Yield per Acre	Area	Yield	Yield per Acre	Area	Yield	Yield per Acre	
WESTERN	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Inches
Bosanquet	2,974	20,700	6.96	389	1,132	2.91	880	5,255	5.97	(b)
Buxton (incl. York)	89,003	1,214,928	13.65	12,458	159,037	12.77	8,042	93,541	11.63	10.43
Dufferin	33,328	272,664	8.18	2,146	14,664	6.83	10,771	52,570	4.88	9.97
Flinders	73,541	1,331,736	18.11	72,465	1,415,014	19.53	14,898	286,288	19.22	13.53
Hopetoun	3,458	8,559	2.48	1,490	4,271	2.87	1,065	853	0.80	(b)
Hore Ruthven	-	-	-	-	-	-	-	-	-	(b)
Jervois	252,211	2,934,909	11.64	70,364	1,041,651	14.80	25,008	274,362	10.97	11.18
Kintore	12,240	33,150	2.71	850	869	1.02	6,855	10,122	1.48	8.59
Le Hunte	93,098	738,474	7.93	18,687	123,048	6.58	20,373	102,302	5.02	8.31
Manchester	-	-	-	-	-	-	-	-	-	(b)
Musgrave (c)	54,580	775,962	14.22	48,161	873,849	18.14	7,684	100,924	13.13	12.33
Robinson	85,030	648,786	7.63	33,817	250,318	7.40	18,416	78,759	4.28	9.66
Way	64,061	441,030	6.88	4,646	31,790	6.84	20,630	81,459	3.95	8.07
MURRAY MALLEE										
Albert	109,758	1,019,106	9.29	33,562	422,263	12.58	6,499	68,746	10.58	10.51
Alfred	110,196	1,140,330	10.35	33,015	369,772	11.20	6,296	61,421	9.76	9.93
Buckleuch	47,086	599,283	12.73	151,118	2,589,679	17.14	16,943	219,465	12.95	12.01
Chandos	96,674	1,544,922	15.98	68,301	1,221,392	17.88	4,475	58,424	13.06	11.69
Hamley (incl. Young)	5,318	31,482	5.92	628	3,475	5.53	431	2,223	5.16	(b)
Russell	13,027	146,802	11.27	35,987	565,438	15.71	7,829	97,163	12.41	10.26
DIVISIONS										
Central	346,258	6,741,426	19.47	407,380	7,177,042	17.62	51,995	934,260	17.97	12.81
Lower North	540,303	11,274,333	20.87	220,853	4,153,879	18.81	46,312	854,646	18.45	13.59
Upper North	137,704	1,736,709	12.61	17,466	205,831	11.78	8,019	74,593	9.30	11.67
South Eastern	59,363	1,198,866	20.20	37,121	668,007	18.00	40,241	933,523	23.20	14.84
Western (c)	763,524	8,420,898	11.03	265,473	3,915,643	14.75	134,622	1,086,435	8.07	10.71
Murray Mallee	382,059	4,481,925	11.73	322,611	5,172,019	16.03	42,473	507,442	11.95	11.16
Outside of Counties										
WHOLE STATE	2,229,211	33,854,157	15.19	1,270,904	21,292,421	16.75	323,662	4,390,899	13.57	12.14

(a) Rainfall over agricultural areas during the crop-growing period April-November 1961. The figure for each county is obtained by averaging recorded rainfall at selected stations in crop-growing areas; the figure for each division is an average of the results so obtained for each county in the division weighted by area under crop. All figures are preliminary and subject to revision.

(b) Not regarded as crop-growing areas.

(c) Includes Outside of Counties.

TABLE 3 - RYE AND FIELD PEAS: AREA AND YIELD, DIVISIONS, SOUTH AUSTRALIA, 1961-62

Division	Rye			Field Peas		
	Area	Yield	Yield Per Acre	Area	Yield	Yield Per Acre
Central	Acres	Bushels	Bushels	Acres	Bushels	Bushels
Lower North	620	5,139	8.29	17,241	156,337	9.07
Upper North	480	4,125	8.97	10,054	91,968	9.15
South Eastern	Included in Lower North			175	75	0.43
Western	215	1,602	7.45	440	4,910	11.16
Murray Mallee	574	1,971	3.43	505	2,418	4.79
Whole State	30,374	154,419	5.08	299	674	2.25
	32,263	167,256	5.18	28,714	256,382	8.93

TABLE 4 - HAY: AREA AND YIELD, DIVISIONS, SOUTH AUSTRALIA, 1961-62

Division	Hay (All Kinds)		
	Area	Yield	Yield Per Acre
Central	Acres	Tons	Tons
Lower North	85,038	123,781	1.46
Upper North	29,008	34,660	1.19
South Eastern	6,031	4,977	0.83
Western (a)	52,809	80,230	1.52
Murray Mallee	14,155	14,660	1.04
Whole State	21,600	27,493	1.27
	208,641	285,801	1.37

(a) Includes "Outside of Counties".

Yield per acre comparisons for selected years when rainfall during the crop growing period was similar to that for 1961-62 are shown below.

TABLE 5 - CEREAL YIELDS, SELECTED YEARS, SOUTH AUSTRALIA

Season	Average Rainfall Apr.-Nov. (a)	Average Yield per Acre			
		Wheat	Barley	Oats	Hay (all kinds)
	Inches	Bushels	Bushels	Bushels	Tons
1912-13	12.63	10.34	19.12	10.76	1.10
1922-23	12.77	11.73	17.18	9.68	1.21
1931-32	12.76	11.81	18.87	11.08	1.20
1948-49	12.51	12.67	17.35	9.23	1.33
1953-54	12.92	19.90	25.40	15.42	1.41
1961-62	12.14 (b)	15.19	16.75	13.57	1.37

(a) Rainfall over agricultural areas.

(b) Preliminary.

AREAS SOWN
FOR ALL
PURPOSES

The following table shows acreages sown for all purposes (grain, hay, and forage) for the seasons 1958-59 to 1961-62 together with farmers' estimates of areas which they intended sowing for the current 1962-63 season. The greatest area ever sown to wheat was 4,507,213 acres in 1930-31, when only 267,369 acres were under barley. From then until 1958-59 a general upward trend in barley acreages was matched by a decline in those for wheat. For the 1930-31 season the acreage under barley was 5.9 per cent of that under wheat; in 1958-59 it reached 93.6 per cent, but decreased in 1959-60 to 82.6 per cent, in 1960-61 to 78.4 per cent, and again in 1961-62 to 57.0 per cent. In the autumn of 1962 the intended sowing of barley for the 1962-63 season was only 43.8 per cent of the intended sowing of wheat.

TABLE 6 - AREAS SOWN FOR ALL PURPOSES, SOUTH AUSTRALIA

Crop	1958-59	1959-60	1960-61	1961-62	1962-63(a)
Acres					
Wheat	1,459,859	1,605,420	2,027,008	2,269,548	2,633,567
Barley	1,367,059	1,325,689	1,588,418	1,294,028	1,154,455
Oats	845,052	813,426	907,250	630,221	968,593
Rye	65,371	44,726	58,665	37,644	(b)
Field Peas	36,880	30,331	29,828	31,541	37,635

(a) Acreage for 1962-63 is that intended to be sown when details were collected in the autumn.

(b) Not available.

WHEAT

The 1961-62 wheat harvest of 33,854,157 bushels averaged only 15.19 bushels per acre and was considerably less than the production of 46,395,600 bushels (23.56 bushels per acre) recorded for 1960-61, which was exceeded in only one previous year, 1931-32, when 48,093,102 bushels were produced at an average yield of 11.81 bushels per acre.

Areas, yields, and yields per acre, relating to South Australian wheat production for the years 1957-58 to 1961-62 are shown below.

TABLE 7 - WHEAT: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1957-58	1958-59	1959-60	1960-61	1961-62
Total Area	Acre	1,411,406	1,459,859	1,605,420	2,027,008	2,269,548
Grain Area	Acre	1,331,302	1,407,413	1,549,499	1,969,423	2,229,211
Yield	Bushel	14,913,988	32,032,232	11,928,966	46,395,600	33,854,157
Yield/Acre	Bushel	11.20	22.76	7.70	23.56	15.19

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Varieties of wheat sown for all purposes for the years 1959-60 to 1961-62 are shown in the following table.

TABLE 8 - WHEAT: VARIETIES SOWN, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
Acres						Per Cent
Bencubbin (a)	51,403	58,891	48,215	3.20	2.91	2.12
Bungulla	2,936	4,272	2,795	0.18	0.21	0.12
Claymore	100,576	113,966	113,172	6.26	5.62	4.99
Dirk (a)	252,509	295,831	292,156	15.73	14.59	12.87
Dundee (a)	4,723	5,066	4,478	0.29	0.25	0.20
Eureka	1,333	3,245	5,296	0.08	0.16	0.23
Festival	3,401	4,873	6,121	0.21	0.24	0.27
Flinders	2,492	3,142	4,836	0.16	0.16	0.21
Gabo	353,485	423,239	447,991	22.02	20.88	19.74
Insignia (a)	354,567	472,510	667,900	22.09	23.31	29.43
Javelin (a)	45,096	48,054	42,421	2.81	2.37	1.87
Kendee	5,004	4,365	2,712	0.31	0.22	0.12
Marathon	4,370	4,488	4,758	0.27	0.22	0.21
Modesty	3,662	7,293	5,864	0.23	0.36	0.26
Olympic	3,919	6,518	10,863	0.24	0.32	0.48
Pinnacle	34,584	44,861	63,225	2.15	2.21	2.79
Quadrat	11,811	17,932	17,954	0.74	0.88	0.79
Rapier (a)	19,414	20,851	18,658	1.21	1.03	0.82
Reldp	5,523	7,722	6,529	0.35	0.38	0.29
Sabre	170,775	243,107	300,459	10.64	11.99	13.24
Scimitar (a)	48,315	56,673	40,830	3.01	2.80	1.80
Sword	6,314	6,443	5,804	0.39	0.32	0.25
Wongoondy	44,352	73,915	69,184	2.76	3.65	3.05
Yande	11,339	11,763	10,910	0.71	0.58	0.48
Other (incl. unspec.)	63,517	87,988	76,417	3.96	4.34	3.37
Total Wheat	1,605,420	2,027,008	2,269,548	100.00	100.00	100.00

(a) Includes back cross.

BARLEY

The barley yield for 1961-62 of 21,292,421 bushels averaged 16.75 bushels per acre. The highest production recorded was 42,233,118 bushels in 1960-61, and the best average yield was 28.27 bushels per acre in 1958-59.

The following table shows details relating to South Australian barley production for the years 1957-58 to 1961-62.

TABLE 9 - BARLEY: AREA & PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1957-58	1958-59	1959-60	1960-61	1961-62
Total Area	Acre	1,271,434	1,367,059	1,325,689	1,588,418	1,294,028
Grain Area	Acre	1,211,762	1,332,473	1,289,936	1,555,687	1,270,904
Yield	Bushel	17,551,669	37,664,492	11,857,192	42,233,118	21,292,421
Yield/Acre	Bushel	14.48	28.27	9.19	27.15	16.75

The area of barley sown for grain in 1961-62 totalled 1,270,904 acres, 1,222,487 acres of 2 row yielding 20,635,995 bushels and 48,417 acres of 6 row yielding 656,426 bushels.

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The varieties of barley sown for all purposes for the years 1959-60 to 1961-62 are shown below.

TABLE 10 - BARLEY: VARIETIES, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
	Acres			Per Cent		
2 Row - Maltworthy	229,540	271,350	198,188	17.31	17.08	15.32
Prior	945,848	1,110,796	943,371	71.35	69.93	72.90
Research	18,055	26,387	19,987	1.36	1.66	1.54
Other 2 Row	64,691	81,331	75,698	4.88	5.12	5.85
6 Row - All Kinds	67,555	98,554	56,784	5.10	6.21	4.39
Total Barley	1,325,689	1,588,418	1,294,028	100.00	100.00	100.00

OATS

The oats yield for 1961-62 was 4,390,899 bushels from 323,662 acres - a yield of 13.57 bushels per acre. Record production in South Australia was 11,992,515 bushels in 1958-59. Average yield per acre for the 1960-61 season was 22.41 bushels, for the 1959-60 season 4.95 bushels, and for the 1958-59 season 24.93 bushels.

Details of oats production in South Australia for the years 1957-58 to 1961-62 are shown below.

TABLE 11 - OATS: AREA & PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1957-58	1958-59	1959-60	1960-61	1961-62
Total Area	Acre	874,908	845,052	813,426	907,250	630,221
Grain Area	Acre	427,366	481,076	505,499	512,165	323,662
Yield	Bushel	3,422,525	11,992,155	2,504,497	11,477,592	4,390,899
Yield/Acre	Bushel	8.01	24.93	4.95	22.41	13.57

Varieties of oats sown for all purposes for the seasons 1959-60 to 1961-62 are as follows:-

TABLE 12 - OATS: VARIETIES, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
	Acres			Per Cent		
Algerian	69,718	64,399	38,966	8.57	7.10	6.18
Avon	5,809	12,356	43,163	0.71	1.36	6.85
Ballidu	48,669	54,179	37,263	5.98	5.97	5.91
Dale	12,547	12,292	6,271	1.54	1.35	1.00
Fulghum	82,433	84,526	48,146	10.13	9.32	7.64
Kent	13,276	34,030	65,690	1.63	3.75	10.42
Kherson (incl. Early)	267,736	322,002	206,096	32.91	35.49	32.70
Kurrajong	17,501	15,175	13,023	2.15	1.67	2.07
New Zealand Cape	79,606	71,465	41,209	9.79	7.88	6.54
Orient	139,454	157,105	87,271	17.14	17.32	13.85
Other (incl. unspec.)	76,677	79,721	43,123	9.45	8.79	6.84
Total Oats	813,426	907,250	630,221	100.00	100.00	100.00

RYE

During 1961-62 the area of rye sown for all purposes was 37,644 acres. The 32,263 acres sown for grain yielded 167,256 bushels at an average yield per acre of 5.18 bushels.

FIELD
PEAS

From 28,714 acres planted for grain in the 1961-62 season 256,382 bushels were reaped, an average of 8.93 bushels per acre. In the 1960-61 season 358,338 bushels were obtained from 26,131 acres. In the autumn, farmers indicated that they intended sowing 37,635 acres in 1962-63 for grain or green forage.

Of the 31,541 acres sown in 1961-62 for all purposes 4,336 acres were sown to Collegian, 18,416 acres to Dun, 6,935 acres to White Brunswick, and 1,854 acres to other varieties.

HAY

The yield of hay (all kinds) in 1961-62 was 285,801 tons from 208,641 acres compared with 616,255 tons from 392,633 acres in 1960-61 and 206,413 tons from 245,299 acres in 1959-60. The greatest amount produced was 1,100,217 tons in 1915-16 obtained from a record area of 709,813 acres.

A summary of areas and production of hay for the years 1957-58 to 1961-62 is shown below.

TABLE 13 - HAY: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62
Acres					
Area					
Wheaten	71,517	50,283	52,076	51,649	33,527
Oaten	100,545	162,762	118,149	152,750	82,664
Other	118,864	206,521	75,074	188,234	92,450
All Kinds	290,926	419,566	245,299	392,633	208,641
Tons					
Yield					
Wheaten	72,092	85,343	43,082	88,058	46,325
Oaten	89,793	273,279	74,710	243,188	101,933
Other	142,209	312,905	88,621	285,009	137,543
All Kinds	304,094	671,527	206,413	616,255	285,801
Yield per Acre					
Wheaten	1.01	1.70	0.83	1.70	1.38
Oaten	0.89	1.68	0.63	1.59	1.23
Other	1.20	1.52	1.18	1.51	1.49
All Kinds	1.05	1.60	0.84	1.57	1.37

CEREALS
USED ON
F FARMS

The following table shows details of cereals and hay used on farms for seed and feed purposes during the years 1960-61 and 1961-62.

TABLE 14 - CEREALS USED ON FARMS, SOUTH AUSTRALIA

Particulars	Unit	1960-61		1961-62	
		Seed	Feed	Seed	Feed
Wheat	Bushel	2,282,844	1,008,069	2,549,838	936,738
Barley	"	1,866,372	2,288,280	1,511,564	2,214,234
Oats	"	1,085,551	3,096,980	773,763	2,751,650
Hay	Ton	-	306,713	-	274,188

Farmers have reported that 2,512,599 bushels of wheat were retained on farms for 1962 seeding and that 736,839 bushels were being kept for feed purposes.

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